

WHAT IS CLAIMED IS:

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- 1 1. A flat panel display for receiving display information including video data and
2 synchronizing data from a host processing digital data in a serial digital communication, comprising:
3 a receiver for reconstructing said display information;
4 a synchronizing signal generator for generating a synchronizing signal by extracting the
5 synchronizing data from said reconstructed display information;
6 a digital-to-analog converter (DAC) for converting said video data to a corresponding video
7 signal; and
8 an output terminal for externally transferring said synchronizing signal and analog video
9 signal to an analog display.
 - 1 2. A flat panel display as defined in claim 1, further comprising a video data converter for
2 converting line and dot numbers of said video data so as to correspond to a prescribed display mode
3 when said synchronizing data has a different characteristic from said prescribed display mode, and
4 said synchronizing signal generator generates said synchronizing signal corresponding to said display
5 mode.
 - 1 3. A digital data processing device used in a flat panel display for displaying display
2 information received from a host processing digital data, comprising:
3 a transmitter connected to said host to transfer digital display information as serial data;

4 a receiver for reconstructing said display information;
5 a synchronizing signal generator for generating a synchronizing signal by extracting
6 synchronizing data from said reconstructed display information;
7 a digital-to-analog converter (DAC) for converting video data to a corresponding video
8 signal; and
9 an output terminal for externally transferring said synchronizing signal and analog video
10 signal to an analog display, said flat panel display including said receiver, synchronizing signal
11 generator and output terminal.

1 4. A flat panel display as defined in claim 2, further comprising a liquid crystal display
2 (LCD) driver for receiving data output from said video data converter; and
3 a liquid crystal display (LCD) display panel for receiving an output from said LCD driver.

1 5. A flat panel display as defined in claim 1, said analog display comprising an amplifier for
2 receiving said video signal from said DAC via said output terminal and amplifying said video signal;
3 a deflection signal generator for receiving said synchronizing signal output from aid
4 synchronizing signal generator via said output terminal and for generating deflection signals;
5 a high voltage generator for receiving an output from said deflection signal generator and
6 generating a high voltage;
7 a cathode ray tube (CRT) display for receiving said amplified video signal from said
8 amplifier and output signals from said deflection signal generator and a high voltage from said high

voltage generator.

6. A digital data processing device used in a flat panel display as defined in claim 3, further comprising a video data converter for converting line and dot numbers of said video data so as to correspond to a prescribed display mode when said synchronizing data has a different characteristic from said prescribed display mode, and said synchronizing signal generator generates said synchronizing signal corresponding to said display mode.

7. A digital data processing device used in a flat panel display as defined in claim 6, further comprising a liquid crystal display (LCD) driver for receiving data output from said video data converter; and

a liquid crystal display (LCD) display panel for receiving an output from said LCD driver.

8. A digital data processing device used in a flat panel display as defined in claim 3, said analog display comprising an amplifier for receiving said video signal from said DAC via said output terminal and amplifying said video signal;

a deflection signal generator for receiving said synchronizing signal output from said synchronizing signal generator via said output terminal and for generating deflection signals;

a high voltage generator for receiving an output from said deflection signal generator and generating a high voltage;

a cathode ray tube (CRT) display for receiving said amplified video signal from said

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